





Pull clamp with screw thread around the main body

Model Representation

HDR ① - ②③ (Example: HDR0241-AS, HDR0551 -RM)

① Dimension (refer to specification sheet) ② Piping method ③ Stroke code

HDR

0221	0451
0241	0551
0301	0651
0361	0801

A: Internal thread type R: Spherical R type S: Short stroke
M: Standard stroke
L: Long stroke

Specification

Model		Н	DR02	21	Н	DR02	41	Н	DR03	01	Н	DR03	61	Н	DR04	51	Н	DR05	51	Н	DR06	51	Н	F= (2.53×P)-1.		
Stroke code		S	М	L	S	М	L	S	М	L	S	М	L	S	М	L	S	М	L	S	М	L	S	М	L	
Stroke	mm	4	6	10	5	8	12	6	10	16	6	10	16	8	12	20	8	12	20	10	16	25	10	16	25	
Clamping output force (calculation formula)	kN	F= (0.072×P)-0.051			(0.12	F= 6×P)	-0.067	F= (0.217×P)-0.108			F= (0.412×P)-0.175			F= (0.628×P)-0.313			F= (0.993×P)-0.471			F= (1.55×P)-0.726			F= (2.53×P)-1.08			
Cylinder area	cm2	0.7			1.3			2.2			4.1			6.3				9.9		15.5			25.3			
Cylinder capacity	cm3	0.3	0.4	0.7	0.6	1.0	1.5	1.3	2.2	3.5	2.5	4.1	6.6	5.0	7.5	12.6	7.9	11.9	19.9	15.5	24.9	38.9	25.3	40.5	63.3	
Spring force for release	N	3	0.2~50).8	38	3.8~6	7.2	56.5~108			92~175			141~313			2	13~47	1	327~726			513~1076			
Maximum operating pressure	MPa												2	5												
Minimum operating pressure	MPa												1.	.0												
Withstand pressure	MPa												37	.5												
Operating temperature	°C												0~	70												
Weight	kg	0.07	0.08	0.1	0.1	0.1	0.15	0.2	0.2	0.3	0.3	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.3	1.5	1.8	2.2	2.5	3.0	

Precautions: 1. Symbol in clamp output (calculation formula), F: clamp output (KN) P: supplied oil pressure (MPa).

Cylinder capacity output

Ti .		Oil cylinder output force (kN)																							
Model	1MPa	2MPa	ЗМРа	4MPa	5MPa	6MPa	7MPa	8MPa	9МРа	10MPa	11MPa	12MPa	13MPa	14MPa	15MPa	16MPa	17MPa	18MPa	19MPa	20MPa	21MPa	22MPa	23MPa	24MPa	25MPa
HDR 0221	0.02	0.09	0.17	0.24	0.31	0.38	0.45	0.53	0.60	0.67	0.74	0.81	0.89	0.96	1.0	1.1	1.2	1.2	1.3	1.4	1.5	1.5	1.6	1.7	1.7
HDR 0241	0.06	0.19	0.31	0.44	0.56	0.69	0.82	0.94	1.1	1.2	1.3	1.4	1.6	1.7	1.8	1.9	2.1	2.2	2.3	2.5	2.6	2.7	2.8	3.0	3.1
HDR 0301	0.11	0.33	0.54	0.76	0.98	1.2	1.4	1.6	1.8	2.1	2.3	2.5	2.7	2.9	3.1	3.4	3.6	3.8	4.0	4.2	4.5	4.7	4.9	5.1	5.3
HDR 0361	0.24	0.65	1.1	1.5	1.9	2.3	2.7	3.1	3.5	3.9	4.4	4.8	5.2	5.6	6.0	6.4	6.8	7.2	7.6	8.1	8.5	8.9	9.3	9.7	10.1
HDR 0451	0.32	0.94	1.6	2.2	2.8	3.5	4.1	4.7	5.3	6.0	6.6	7.2	7.9	8.5	9.1	9.7	10.4	11.0	11.6	12.2	12.9	13.5	14.1	14.8	15.4
HDR 0551	0.52	1.5	2.5	3.5	4.5	5.5	6.5	7.5	8.5	9.5	10.5	11.4	12.4	13.4	14.4	15.4	16.4	17.4	18.4	19.4	20.4	21.4	22.4	23.4	24.4
HDR 0651	0.82	2.4	3.9	5.5	7.0	8.6	10.1	11.7	13.2	14.8	16.3	17.9	19.4	21.0	22.5	24.1	25.6	27.2	28.7	30.3	31.8	33.4	34.9	36.5	38.0
HDR 0801	1.5	4.0	6.5	9.0	11.6	14.1	16.6	19.2	21.7	24.2	26.8	29.3	31.8	34.3	36.9	39.4	41.9	44.5	47.0	49.5	52.1	54.6	57.1	59.6	62.2

Overall dimension

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O-ring for oil supply port (attached)

HG

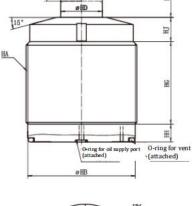
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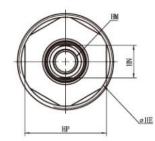
O-ring for vent (attached)

Precautions

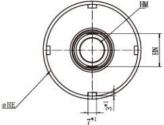
*1. Different from other body sizes, fish-lip pincer is required. The user is asked to prepare the corresponding size of fish-lip pincer.



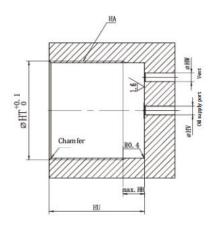


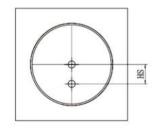


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Installation part processing dimension





Overall dimension and installation part processing dimension table

mm

Model		1.10	ano.	224	LIF	2001	141	1.15	NDO2	701	1.17	DDO:	7/1	1.11	200	451	1.10	NDO!	E E 4	1.1	DD0/	E4		20052-12041	001	
Model		HDR0221			HDR0241			-)RO3	IUI		DR03	100	-	DRO-	451	-	ORO!	551	-	DR06	51		IDR0	301	
Stroke code		S	М	L	S	М	L	S	М	L	S	М	L	S	М	L	S	М	L	S	М	L	S	М	L	
Stroke		4	6	10	5	8	12	5	8	12	5	8	12	8	12	20	8	12	20	10	16	25	10	16	25	
HA (nominal×depth)	М	22×	1.5	M24×1.5			M30×1.5			M36×1.5			١	M55×2			155×	2	M65×2				M80×2			
HB			20.3			22.4			28.3			34.3			43.4	1		52.6	i	62.7				77.6		
HC			9.5			9.5			11.5			13.5			15.5	5		19.5			24.5			29.5		
HD			10f7			10 f7			12 f7			14 f7			16 f	7		20 f7	,		25 f7			30		
HE		19			21.2			26.5		33				40			50			60		75				
HF	48.5	53.5	65.5	51.6	59.6	71.6	59.5	71.5	88.5	63	74.5	91.5	72.1	83.1	103.1	79	91	112	93.1	109.1	135.1	103	119	145		
HG		23.5	26.5	34.5	25	30	38	28.5	36.5	47.5	28	35.5	46.5	33	40	52	33	41	54	42	52	69	49.5	59.5	76.5	
НН			8			8			9			10			12			12			13		13			
HJ		8			8.5			10			12			12			16			17			17.5			
НК		9	11	15	10	13	17	12	16	22	13	17	23	15	19	27	18	22	30	21	27	36	23	29	38	
HL			4.5			4.5			5.5			6.5			6.5			8.5			10			11.5		
HM (nominal×depth)		N	M6×11			M6×11			M8×18			M8×18			M10×20			M12×22			M16×28			M20×31		
HN			8			8			10			12			14			17			22			27		
HP			17			19			24			30			36			46			55		-			
HS			7		7~7.5			7 ~ 10.5			10.5~13.5			12.5 ~ 16			14.5~20			18.5 ~ 25.5			24.5~32			
HT			20.5		22.5			28.5			34.5			43.5			53			63			78			
	(min.)	14	14	14	14	14	14	15	15	15	16	16	16	18	18	18	20	20	20	25	25	25	25	25	25	
HU	(max.)	31	34	42	32	37	45	37	45	56	37	45	56	44	51	63	44	52	65	54	64	81	62	72	89	
HV	, ,		3			3			3			3			5			5			5			5		
HW			3		3				3			3			5			5			5			5		
Chamfer			C1			C1			C1			C1			C1			C1.5			C1.5			C1.5		
O-seal ring for oil supply p	ort		1BP5	5	4.8×1.9			1BP5			1BP5			6.8×1.9			1BP7				5.8×1	.9	1BP7			
O-seal ring for vent			568-0 (90°	017		77×.	1.78		568-0 (90°))22	AS	5568-0 (90°			77× (90°	2.62	AS568-133 (90°)				.82×2 (90°)		AS568-232 (90°)			